UAB
Universitat Autònoma de Barcelona

2019/2020

Hydrogeology

Code: 101066
ECTS Credits: 6

Degree	Type	Year	Semester
2500254 Geology	OT	3	0
2500254 Geology	OT	4	0

Contact

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Use of Languages

Principal working language: spanish (spa)

Some groups entirely in English: No

Some groups entirely in Catalan: No

Some groups entirely in Spanish: Yes

Prerequisites

No previous courses needed

Objectives and Contextualisation

Understanding the components of the water cycle

Competences

Geology
- Process, interpret and present field data using qualitative and quantitative techniques, and suitable computer programmes.
- Process, interpret and present laboratory data using qualitative and quantitative techniques, and suitable computer programmes.

Learning Outcomes

1. Evaluate and process laboratory data corresponding to environmental issues.
2. Identify and process the value and the sources of field data with environmental implications.
3. Interpret relief dynamics on different time-space scales in terms of risk and land-use planning.
4. Synthesise and select field data and process it qualitatively and quantitatively using different computer programmes.

Content

- The natural cycle of water

- Precipitation

- Runoff

- Hydrographs

- Infiltration

- Evapotranspiration

- Water in the subsoil

- Darcy's Law

- Water quality

Methodology

Lectures a practical case work

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Field work	7	0.28	2, 1, 4
Practicum	20	0.8	2, 1, 4
Theory	24	0.96	2, 1, 4
Type: Supervised			
Tutorials	6	0.24	2, 1, 4
Type: Autonomous			
Personal work	81	3.24	2, 1, 4

Assessment

Total final exam for students with a normal course fail grade.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
2 mid-term exams	Each exam 30% of final evaluation	6	0.24	2, 1, 3, 4
Field work	5%	3	0.12	3, 4
Pop quiz	35% of final degree	3	0.12	1, 3

Bibliography

Same as in catalan version